## Declass Review by NIMA / DoD

May 11, 1964

High Resolution Screen or UV excited phosphor screen

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They have received the contract and have started work.

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is proceding with the lens design which will give good color correction for both UV and visual light. His present approach is a catadioptric system in which the first two surfaces are first surface mirrors for the principal focusing, or image formation. Two low power quartz lenses are then used as corrector plates to remove residuals psherical deficiences without introducing any chromatic errors of importance. The magnification is 13:1 which enlarges a 70 mm format to fill a 30" by 30" screen. Before completing this design, is reviewing the literature to see if there other possible approaches which would offer more.

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is proceding with the organic phosphor work. He is planning to investigate Anthracene, Fluorene, Fluorene, Rubrene, Diphenyl-cyclo-octatetraene, and Umbelliferone. These materials are on order in small sample lots and some of them have been received. The material is usually in powder or crystalline form and must be disolved. He expects to suspend them in an acrylic resin, so he must first determine the proper solvent and then determine whether they will fluoresce in the resin.

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will do the inorganic coating investigations. He will use zinc sulfide, Zinc Silicate, and Cadmium Tungstate. Thes materials are on order. There is some competitive rivalry between as to whether the organics or the inorganics will prove to be the suitable material.

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In order to get a fix on the life of the phosphors, they have had a sample of the material they were previously working with illuminated for several months. There has been no noticeable decay.

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5/11/ monday STATINTL Some things I would like to discuss with you: I. How did the proposal for works after 7,169
STATINTL strike you? Lad asked look march
STATINTL if we were going to incorporate.

Lare been discussing this & I think we
will 2. Received a letter dated april 29 requesting STATINTL I not work for they consider my regulations. Did you see that letter? 3. What happened to the Surguage Statistics which I gave to would like to find some new capabilities in microscoper of accessories I contacted in Then Approved For Belgase 200/108/13: CIARDP78B04747A00100006